

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-45 (Canceled)

46. (New) A method for a communication device comprising a microphone, a speaker, an input device, a display, and a wireless communicating system, said method comprising:

a function implementing step in which a specific function is implemented;

wherein said communication device implements a voice communicating function and a fixed-line phone communication device remote controlling function;

a 1st voice data input via said microphone is transferred via said wireless communicating system and a 2nd voice data which is different from said 1st voice data received via said wireless communicating system is output via said speaker when said voice communicating function is implemented in said step; and

said communication device is remotely controlled via a fixed-line phone when said fixed-line phone communication device remote controlling function is implemented in said step.

47. (New) A method for a communication device comprising a microphone, a speaker, an input device, a display, and a wireless communicating system, said method comprising:

a function implementing step in which a specific function is implemented;

wherein said communication device implements a voice communicating function and an

internet communication device remote controlling function;  
a 1st voice data input via said microphone is transferred via said wireless communicating system and a 2nd voice data which is different from said 1st voice data received via said wireless communicating system is output via said speaker when said voice communicating function is implemented in said step; and  
said communication device is remotely controlled via the Internet when said internet communication device remote controlling function is implemented in said step.

48. (New) A method for a communication device comprising a microphone, a speaker, an input device, a display, and a wireless communicating system, said method comprising:

a function implementing step in which a specific function is implemented;  
wherein said communication device implements a voice communicating function, a fixed-line phone communication device remote controlling function, and an internet communication device remote controlling function;  
a 1st voice data input via said microphone is transferred via said wireless communicating system and a 2nd voice data which is different from said 1st voice data received via said wireless communicating system is output via said speaker when said voice communicating function is implemented in said step;  
said communication device is remotely controlled via a fixed-line phone when said fixed-line phone communication device remote controlling function is implemented in said step; and  
said communication device is remotely controlled via the Internet when said internet communication device remote controlling function is implemented in said step.

49. (New) The method of claim 46, wherein said communication device further implements a shortcut icon displaying function, wherein a shortcut icon is displayed on

said display, and a software program indicated by said shortcut icon is activated when said shortcut icon is selected.

50. (New) The method of claim 46, wherein said communication device further implements a task tray icon displaying function, wherein a task tray icon is displayed on said display, and a software program indicated by said task tray icon is executed in background.

51. (New) The method of claim 46, wherein said communication device further implements a multiple channel processing function which enables said communication device to send and receive a large amount of data in a short period of time by utilizing multiple channels.

52. (New) The method of claim 46, wherein said communication device further implements a solar battery charging function which enables to charge battery of said communication device by utilizing solar panel.

53. (New) The method of claim 46, wherein said communication device further implements a OS updating function which updates operating system of said communication device in a wireless fashion via said wireless communication system.

54. (New) The method of claim 46, wherein said communication device further implements a device managing function which adds and deletes device controllers attached to or installed in said communication device.

55. (New) The method of claim 46, wherein said communication device further implements an automobile controlling function wherein said communication device

remotely controls, in response to an automobile controlling command input via said input device, an automobile.

56. (New) The method of claim 46, wherein said communication device further implements an OCR function wherein an image data is input to a camera of said communication device, alphanumeric data is extracted from said image data.

57. (New) The method of claim 46, wherein said communication device further implements

a voice recognition system which retrieves alphanumeric information from the user's voice input via said microphone;

a voice recognition system which retrieves alphanumeric information from the user's voice input via said microphone, and a voice recognition refraining system which refrains from implementing said voice recognition system while a voice communication is implemented by said communication device;

a tag function, wherein a voice tag is linked to a phone number, when said voice tag is detected in the voice data retrieved via said microphone, said phone number is dialed;

a voice recognition noise filtering function, wherein a background noise is identified, a filtered voice data is produced by removing said background noise from the voice data input via said microphone, and said communication device is operated by said filtered voice data;

a sound/beep auto off function wherein said communication device refrains from outputting a sound data while a voice recognition system is implemented;

a voice recognition system auto off function, wherein said voice recognition system auto off function identifies the lapsed time since a voice recognition system is activated and deactivates said voice recognition system after a certain period of time has lapsed;

a voice recognition email function which produces a voice produced email which is an

email produced by the alphanumeric information retrieved from the user's voice input via said microphone;

a voice communication text converting function, wherein a 1st voice data which indicates the voice data of the caller and a 2nd voice data which indicates the voice data of the callee are retrieved, and said 1st voice data and said 2nd voice data are converted to a 1st text data and a 2nd text data respectively, which are displayed on said display;

a target device location indicating function, wherein a target device location data identifying request is transferred to a host computing system in a wireless fashion, a map data and a target device location data is received from said host computing system in a wireless fashion, and said map data with the location corresponding to said target device location data indicated thereon is displayed on said display;

an auto backup function, wherein the data identified by the user is automatically retrieved from a data storage area of said communication device and transferred to another computing system in a wireless fashion periodically for purposes of storing a backup data therein;

an audio/video data capturing system which retrieves an audiovisual data via said microphone and a camera installed in said communication device, and sends said audiovisual data to another device in a wireless fashion;

a caller ID function which retrieves a predetermined color data and/or sound data which is specific to the caller of the incoming call received by said communication device and outputs said predetermined color data and/or sound data from said communication device;

a stock purchase function which outputs a notice signal from said communication device when said communication device receives a notice data wherein said notice data is produced by a computing system and sent to said communication device when a stock price of a predetermined stock brand meets a predetermined criteria; and

a timer email function which sends an email data to a predetermined email address at

the time indicated by an email data sending time data.

58. (New) The method of claim 46, wherein said communication device further implements

a call blocking function which blocks the incoming call if the identification thereof is included in a call blocking list;

an online payment function which sends a payment data indicating a certain amount of currency to a certain computing system or device in a wireless fashion in order for said certain computing system or device to deduct the amount indicated by said payment data from a certain account stored in said certain computing system or device;

a navigation system which produces a map indicating the shortest route from a first location to a second location by referring to an attribution data;

a remote controlling system which sends a 1st remote control signal in a wireless fashion by which a 1st device is controlled via a network, a 2nd remote control signal in a wireless fashion by which a 2nd device is controlled via a network, and a 3rd remote control signal in a wireless fashion by which a 3rd device is controlled via a network;

an auto emergency calling system wherein said communication device transfers an emergency signal to a certain computing system or device when an impact of a certain level is detected in a predetermined automobile;

a cellular TV function which receives a TV data, which is a series of digital data indicating a TV program, via said wireless communication system in a wireless fashion and outputs said TV data from said communication device;

a GPS search engine function, wherein a specific criteria is selected by said input device and one or more of geographic locations corresponding to said specific criteria are indicated on said display;

a mobile ignition key function which sends a mobile ignition key signal via said wireless communication system in a wireless fashion in order to ignite an engine of an

automobile;

a voice print authentication system which implements authentication process by utilizing voice data of the user of said communication device;

a fingerprint authentication system which implements authentication process by utilizing fingerprint data of the user of said communication device;

an auto time adjusting function which automatically adjusts the clock of said communication device by referring to a wireless signal received by said wireless communication system;

a video/photo function which implements a video mode and a photo mode, wherein said video/photo function displays moving image data under said video mode and said video/photo function displays still image data under said photo mode on said display;

a taxi calling function, wherein a 1st location which indicates the geographic location of said communication device is identified, a 2nd location which indicates the geographic location of the taxi closest to said 1st location is identified, and said 1st location and said 2nd location are indicated on said display;

an address book updating function which updates the address book stored in said communication device by personal computer via network;

a batch address book updating function which updates all address books of a plurality of devices including said communication device in one action;

a batch scheduler updating function which updates all schedulers of a plurality of devices including said communication device in one action; and

a calculating function which implements mathematical calculation by utilizing digits input via said input device.

59. (New) The method of claim 46, wherein said communication device further implements

a spreadsheet function which displays a spreadsheet on said display, wherein said

spreadsheet includes a plurality of cells which are aligned in a matrix fashion;

a word processing function which implements a bold formatting function, an italic formatting function, and/or a font formatting function, wherein said bold formatting function changes alphanumeric data to bold, said italic formatting function changes alphanumeric data to italic, and said font formatting function changes alphanumeric data to a selected font;

a TV remote controlling function wherein a TV control signal is transferred via said wireless communication system, said TV control signal is a wireless signal to control a TV tuner;

a CD/PC inter-communicating function which retrieves the data stored in a data storage area and transfers said data directly to another computer by utilizing infra-red signal in a wireless fashion;

a pre-dialing/dialing/waiting sound selecting function, wherein a selected pre-dialing sound which is one of the plurality of pre-dialing sound is registered, a selected dialing sound which is one of the plurality of dialing sound is registered, and a selected waiting sound which is one of the plurality of waiting sound is registered by the user of said communication device, and during the process of implementing a voice communication mode, said selected pre-dialing sound is output from said speaker before a dialing process is initiated, said selected dialing sound is output from said speaker during said dialing process is initiated, and said selected waiting sound is output from said speaker after said dialing process is completed;

a startup software function, wherein a startup software identification data storage area stores a startup software identification data which is an identification of a certain software program selected by the user, when the power of said communication device is turned on, said startup software function retrieves said startup software identification data from said startup software identification data storage area and activates said certain software program;



said display includes a 1st display and a 2nd display which display visual data in a stereo fashion, said microphone includes a 1st microphone and a 2nd microphone which input audio data in a stereo fashion, and said communication device further comprises a vibrator which vibrates said communication device, an infra-red transmitting device which transmits infra-red signals, a flash light unit which emits strobe light, a removable memory which stores a plurality of digital data and removable from said communication device, and a photometer which a sensor to detect light intensity;

a stereo audio data output function which enables said communication device to output audio data in a stereo fashion;

a stereo visual data output function, wherein a left visual data storage area stores a left visual data, a right visual data storage area stores a right visual data, stereo visual data output function retrieves said left visual data from said left visual data storage area and displays on a left display and retrieves said right visual data from said right visual data storage area and displays on a right display;

a multiple signal processing function, wherein said communication implements wireless communication under a 1st mode and a 2nd mode, said wireless communication is implemented by utilizing cdma2000 signal under said 1st mode, and said wireless communication is implemented by utilizing W-CDMA signal under said 2nd mode;

a pin-pointing function, wherein a plurality of in-door access points are installed in an artificial structure, a target device location data which indicates the current geographic location of another device is identified by the geographical relation between said plurality of in-door access points and said another device, and said target device location data is indicated on said display;

a CCD bar code reader function, wherein a bar code data storage area stores a plurality of bar code data, each of said plurality of bar code data corresponds to a specific alphanumeric data, said CCD bar code reader function identifies the bar code data corresponding to a bar code retrieved via a camera and identifies and displays the

alphanumeric data corresponding to the identified bar code data;

an online renting function which enables the user of communication device to download from another computing system and rent digital information for a certain period of time;

an SOS calling function, wherein when a specific call is made from said communication device, said SOS calling function retrieves a current geographic location data from a current geographic location data storage area and retrieves a personal information data from a personal information data storage area and transfers said current geographic location data and said personal information data to a specific device in a wireless fashion;

a PC remote controlling function, wherein an image data is produced by a personal computer, said image data is displayed on said personal computer, said image data is transferred to said communication device, said image data is received via said wireless communication system in a wireless fashion and stored in a data storage area, said image data is retrieved from said data storage area and displayed on said display, a remote control signal input via said input device is transferred to said personal computer via said wireless communication system in a wireless fashion, and said personal computer is controlled in accordance with said remote control signal;

a PC remote downloading function, wherein said communication device sends a data transferring instruction signal to a 1st computer via said wireless communication system in a wireless fashion, wherein said data transferring instruction signal indicates an instruction to said 1st computer to transfer a specific data stored therein to a 2nd computer;

an audiovisual playback function, wherein an audiovisual data storage area stores a plurality of audiovisual data, an audiovisual data is selected from said audiovisual data storage area, said audiovisual playback function replays said audiovisual data if a replaying command is input via said input device, said audiovisual playback function pauses to replay said audiovisual data if a replay pausing command is input via said

input device, said audiovisual playback function resumes to replay said audiovisual data if a replay resuming command is input via said input device, said audiovisual playback function terminates to replay said audiovisual data if a replay terminating command is input via said input device, said audiovisual playback function fast-forwards to replay said audiovisual data if a replay fast-forwarding command is input via said input device, and said audiovisual playback function fast-rewinds to replay said audiovisual data if a replay fast-rewinding command is input via said input device;

an audio playback function which enables said communication device to playback audio data selected by the user of said communication device; and

a ticket purchasing function which enables said communication device to purchase tickets in a wireless fashion.

60. (New) The method of claim 46, wherein said communication device further implements

a remote data erasing function, wherein a data storage area stores a plurality of data, said remote data erasing function deletes a portion or all data stored in said data storage area in accordance with a data erasing command received from another computer via said wireless communication system in a wireless fashion, said data erasing command identifies the data to be erased selected by the user;

a business card function which retrieves a 1st business card data indicating the name, title, phone number, email address, and office address of the user of said communication device from said data storage area and sends via said wireless communication system in a wireless fashion and receives a 2nd business card data indicating the name, title, phone number, email address, and office address of the user of another device via said wireless communication system in a wireless fashion and stores said 2nd business card data in said data storage area;

a game vibrating function which activates a vibrator of said communication device when

a 1st game object contacts a 2nd game object displayed on said display;

a part-timer finding function which enables the user of said communication device to find a part-time job in a specified manner by utilizing said communication device;

a parking lot finding function which enables said communication device to display the closest parking lot with vacant spaces on said display with the best route thereto;

an on demand TV function which enables said communication device to display TV program on said display in accordance with the user's demand;

an inter-communicating TV function which enables said communication device to send answer data to host computing system at which said answer data from a plurality of communication devices including said communication device are counted and the counting data is produced;

a display controlling function which enables said communication device to control the brightness and/or the contrast of said display per file opened or software program executed;

a multiple party communicating function which enables the user of said communication device to voice communicate with more than one person via said communication device;

a display brightness controlling function which controls the brightness of said display in accordance with the brightness detected by a photometer of the surrounding area of the user of said communication device;

a multiple party pin-pointing function which enables said communication device to display the current locations of a plurality of devices in artificial structure;

a digital camera function, wherein a photo quality identifying command is input via said input device, when a photo taking command is input via said input device, a photo data retrieved via a camera is stored in a photo data storage area with the quality indicated by said photo quality identifying command;

a phone number linking function which displays a phone number link and dials a phone number indicated by said phone number link when said phone number link is selected;

and

a multiple window displaying function which displays a plurality of windows simultaneously on said display.

61. (New) The method of claim 46, wherein said communication device further implements

a mouse pointer displaying function which displays on said display a mouse pointer which is capable to be manipulated by the user of said communication device;

a house item pin-pointing function which enables the user of said communication device to find the location of the house items for which the user is looking in a house, wherein the house items are the tangible objects placed in a house which are movable by human being;

a membership administrating function in which host computing system allows only the users of said communication device who have paid the monthly fee to access host computing system to implement a certain function;

a keyword search timer recording function which enables to timer record TV programs which meet a certain criteria set by the user of said communication device;

a weather forecast displaying function which displays on said display the weather forecast of the current location of said communication device;

a multiple language displaying function, wherein a selected language is selected from a plurality of languages, and said selected language is utilized to operate said communication device;

a caller's information displaying function which displays personal information regarding caller on said display when said communication device receives a phone call;

a shortcut icon displaying function, wherein a shortcut icon is displayed on said display, and a software program indicated by said shortcut icon is activated when said shortcut icon is selected;

a task tray icon displaying function, wherein a task tray icon is displayed on said display, and a software program indicated by said task tray icon is executed in background;

a multiple channel processing function which enables said communication device to send and receive a large amount of data in a short period of time by utilizing multiple channels;

a solar battery charging function which enables to charge battery of said communication device by utilizing solar panel;

a OS updating function which updates operating system of said communication device in a wireless fashion via said wireless communication system;

a device managing function which adds and deletes device controllers attached to or installed in said communication device;

an automobile controlling function wherein said communication device remotely controls, in response to an automobile controlling command input via said input device, an automobile; and

an OCR function wherein an image data is input to a camera of said communication device, alphanumeric data is extracted from said image data.

62. (New) The method of claim 46, wherein said communication device further implements

a voice recognition system which retrieves alphanumeric information from the user's voice input via said microphone;

a voice recognition system which retrieves alphanumeric information from the user's voice input via said microphone, and a voice recognition refraining system which refrains from implementing said voice recognition system while a voice communication is implemented by said communication device;

a tag function, wherein a voice tag is linked to a phone number, when said voice tag is detected in the voice data retrieved via said microphone, said phone number is dialed;

a voice recognition noise filtering function, wherein a background noise is identified, a filtered voice data is produced by removing said background noise from the voice data input via said microphone, and said communication device is operated by said filtered voice data;

a sound/beep auto off function wherein said communication device refrains from outputting a sound data while a voice recognition system is implemented;

a voice recognition system auto off function, wherein said voice recognition system auto off function identifies the lapsed time since a voice recognition system is activated and deactivates said voice recognition system after a certain period of time has lapsed;

a voice recognition email function which produces a voice produced email which is an email produced by the alphanumeric information retrieved from the user's voice input via said microphone;

a voice communication text converting function, wherein a 1st voice data which indicates the voice data of the caller and a 2nd voice data which indicates the voice data of the callee are retrieved, and said 1st voice data and said 2nd voice data are converted to a 1st text data and a 2nd text data respectively, which are displayed on said display;

a target device location indicating function, wherein a target device location data identifying request is transferred to a host computing system in a wireless fashion, a map data and a target device location data is received from said host computing system in a wireless fashion, and said map data with the location corresponding to said target device location data indicated thereon is displayed on said display;

an auto backup function, wherein the data identified by the user is automatically retrieved from a data storage area of said communication device and transferred to another computing system in a wireless fashion periodically for purposes of storing a backup data therein;

an audio/video data capturing system which retrieves an audiovisual data via said microphone and a camera installed in said communication device, and sends said

audiovisual data to another device in a wireless fashion;

a caller ID function which retrieves a predetermined color data and/or sound data which is specific to the caller of the incoming call received by said communication device and outputs said predetermined color data and/or sound data from said communication device;

a stock purchase function which outputs a notice signal from said communication device when said communication device receives a notice data wherein said notice data is produced by a computing system and sent to said communication device when a stock price of a predetermined stock brand meets a predetermined criteria;

a timer email function which sends an email data to a predetermined email address at the time indicated by an email data sending time data;

a call blocking function which blocks the incoming call if the identification thereof is included in a call blocking list;

an online payment function which sends a payment data indicating a certain amount of currency to a certain computing system or device in a wireless fashion in order for said certain computing system or device to deduct the amount indicated by said payment data from a certain account stored in said certain computing system or device;

a navigation system which produces a map indicating the shortest route from a first location to a second location by referring to an attribution data;

a remote controlling system which sends a 1st remote control signal in a wireless fashion by which a 1st device is controlled via a network, a 2nd remote control signal in a wireless fashion by which a 2nd device is controlled via a network, and a 3rd remote control signal in a wireless fashion by which a 3rd device is controlled via a network;

an auto emergency calling system wherein said communication device transfers an emergency signal to a certain computing system or device when an impact of a certain level is detected in a predetermined automobile;

a cellular TV function which receives a TV data, which is a series of digital data indicating



a TV program, via said wireless communication system in a wireless fashion and outputs said TV data from said communication device;

a GPS search engine function, wherein a specific criteria is selected by said input device and one or more of geographic locations corresponding to said specific criteria are indicated on said display;

a mobile ignition key function which sends a mobile ignition key signal via said wireless communication system in a wireless fashion in order to ignite an engine of an automobile;

a voice print authentication system which implements authentication process by utilizing voice data of the user of said communication device;

a fingerprint authentication system which implements authentication process by utilizing fingerprint data of the user of said communication device;

an auto time adjusting function which automatically adjusts the clock of said communication device by referring to a wireless signal received by said wireless communication system;

a video/photo function which implements a video mode and a photo mode, wherein said video/photo function displays moving image data under said video mode and said video/photo function displays still image data under said photo mode on said display;

a taxi calling function, wherein a 1st location which indicates the geographic location of said communication device is identified, a 2nd location which indicates the geographic location of the taxi closest to said 1st location is identified, and said 1st location and said 2nd location are indicated on said display; and

63. (New) The method of claim 46, wherein said communication device further implements

an address book updating function which updates the address book stored in said communication device by personal computer via network;

a batch address book updating function which updates all address books of a plurality of devices including said communication device in one action;

a batch scheduler updating function which updates all schedulers of a plurality of devices including said communication device in one action;

a calculating function which implements mathematical calculation by utilizing digits input via said input device;

a spreadsheet function which displays a spreadsheet on said display, wherein said spreadsheet includes a plurality of cells which are aligned in a matrix fashion;

a word processing function which implements a bold formatting function, an italic formatting function, and/or a font formatting function, wherein said bold formatting function changes alphanumeric data to bold, said italic formatting function changes alphanumeric data to italic, and said font formatting function changes alphanumeric data to a selected font;

a TV remote controlling function wherein a TV control signal is transferred via said wireless communication system, said TV control signal is a wireless signal to control a TV tuner;

a CD/PC inter-communicating function which retrieves the data stored in a data storage area and transfers said data directly to another computer by utilizing infra-red signal in a wireless fashion;

a pre-dialing/dialing/waiting sound selecting function, wherein a selected pre-dialing sound which is one of the plurality of pre-dialing sound is registered, a selected dialing sound which is one of the plurality of dialing sound is registered, and a selected waiting sound which is one of the plurality of waiting sound is registered by the user of said communication device, and during the process of implementing a voice communication mode, said selected pre-dialing sound is output from said speaker before a dialing process is initiated, said selected dialing sound is output from said speaker during said dialing process is initiated, and said selected waiting sound is output from said speaker

after said dialing process is completed;

a startup software function, wherein a startup software identification data storage area stores a startup software identification data which is an identification of a certain software program selected by the user, when the power of said communication device is turned on, said startup software function retrieves said startup software identification data from said startup software identification data storage area and activates said certain software program;

said display includes a 1st display and a 2nd display which display visual data in a stereo fashion, said microphone includes a 1st microphone and a 2nd microphone which input audio data in a stereo fashion, and said communication device further comprises a vibrator which vibrates said communication device, an infra-red transmitting device which transmits infra-red signals, a flash light unit which emits strobe light, a removable memory which stores a plurality of digital data and removable from said communication device, and a photometer which a sensor to detect light intensity;

a stereo audio data output function which enables said communication device to output audio data in a stereo fashion;

a stereo visual data output function, wherein a left visual data storage area stores a left visual data, a right visual data storage area stores a right visual data, stereo visual data output function retrieves said left visual data from said left visual data storage area and displays on a left display and retrieves said right visual data from said right visual data storage area and displays on a right display;

a multiple signal processing function, wherein said communication implements wireless communication under a 1st mode and a 2nd mode, said wireless communication is implemented by utilizing cdma2000 signal under said 1st mode, and said wireless communication is implemented by utilizing W-CDMA signal under said 2nd mode;

a pin-pointing function, wherein a plurality of in-door access points are installed in an artificial structure, a target device location data which indicates the current geographic

location of another device is identified by the geographical relation between said plurality of in-door access points and said another device, and said target device location data is indicated on said display;

a CCD bar code reader function, wherein a bar code data storage area stores a plurality of bar code data, each of said plurality of bar code data corresponds to a specific alphanumeric data, said CCD bar code reader function identifies the bar code data corresponding to a bar code retrieved via a camera and identifies and displays the alphanumeric data corresponding to the identified bar code data;

an online renting function which enables the user of communication device to download from another computing system and rent digital information for a certain period of time;

an SOS calling function, wherein when a specific call is made from said communication device, said SOS calling function retrieves a current geographic location data from a current geographic location data storage area and retrieves a personal information data from a personal information data storage area and transfers said current geographic location data and said personal information data to a specific device in a wireless fashion;

a PC remote controlling function, wherein an image data is produced by a personal computer, said image data is displayed on said personal computer, said image data is transferred to said communication device, said image data is received via said wireless communication system in a wireless fashion and stored in a data storage area, said image data is retrieved from said data storage area and displayed on said display, a remote control signal input via said input device is transferred to said personal computer via said wireless communication system in a wireless fashion, and said personal computer is controlled in accordance with said remote control signal;

a PC remote downloading function, wherein said communication device sends a data transferring instruction signal to a 1st computer via said wireless communication system in a wireless fashion, wherein said data transferring instruction signal indicates an

instruction to said 1st computer to transfer a specific data stored therein to a 2nd computer;

an audiovisual playback function, wherein an audiovisual data storage area stores a plurality of audiovisual data, an audiovisual data is selected from said audiovisual data storage area, said audiovisual playback function replays said audiovisual data if a replaying command is input via said input device, said audiovisual playback function pauses to replay said audiovisual data if a replay pausing command is input via said input device, said audiovisual playback function resumes to replay said audiovisual data if a replay resuming command is input via said input device, said audiovisual playback function terminates to replay said audiovisual data if a replay terminating command is input via said input device, said audiovisual playback function fast-forwards to replay said audiovisual data if a replay fast-forwarding command is input via said input device, and said audiovisual playback function fast-rewinds to replay said audiovisual data if a replay fast-rewinding command is input via said input device;

an audio playback function which enables said communication device to playback audio data selected by the user of said communication device;

a ticket purchasing function which enables said communication device to purchase tickets in a wireless fashion;

a remote data erasing function, wherein a data storage area stores a plurality of data, said remote data erasing function deletes a portion or all data stored in said data storage area in accordance with a data erasing command received from another computer via said wireless communication system in a wireless fashion, said data erasing command identifies the data to be erased selected by the user;

a business card function which retrieves a 1st business card data indicating the name, title, phone number, email address, and office address of the user of said communication device from said data storage area and sends via said wireless communication system in a wireless fashion and receives a 2nd business card data indicating the name, title,

phone number, email address, and office address of the user of another device via said wireless communication system in a wireless fashion and stores said 2nd business card data in said data storage area;

a game vibrating function which activates a vibrator of said communication device when a 1st game object contacts a 2nd game object displayed on said display;

a part-timer finding function which enables the user of said communication device to find a part-time job in a specified manner by utilizing said communication device;

a parking lot finding function which enables said communication device to display the closest parking lot with vacant spaces on said display with the best route thereto;

an on demand TV function which enables said communication device to display TV program on said display in accordance with the user's demand;

an inter-communicating TV function which enables said communication device to send answer data to host computing system at which said answer data from a plurality of communication devices including said communication device are counted and the counting data is produced;

a display controlling function which enables said communication device to control the brightness and/or the contrast of said display per file opened or software program executed;

a multiple party communicating function which enables the user of said communication device to voice communicate with more than one person via said communication device; and

a display brightness controlling function which controls the brightness of said display in accordance with the brightness detected by a photometer of the surrounding area of the user of said communication device.

64. (New) The method of claim 46, wherein said communication device further implements

a multiple party pin-pointing function which enables said communication device to display the current locations of a plurality of devices in artificial structure;

a digital camera function, wherein a photo quality identifying command is input via said input device, when a photo taking command is input via said input device, a photo data retrieved via a camera is stored in a photo data storage area with the quality indicated by said photo quality identifying command;

a phone number linking function which displays a phone number link and dials a phone number indicated by said phone number link when said phone number link is selected;

a multiple window displaying function which displays a plurality of windows simultaneously on said display;

a mouse pointer displaying function which displays on said display a mouse pointer which is capable to be manipulated by the user of said communication device;

a house item pin-pointing function which enables the user of said communication device to find the location of the house items for which the user is looking in a house, wherein the house items are the tangible objects placed in a house which are movable by human being;

a membership administrating function in which host computing system allows only the users of said communication device who have paid the monthly fee to access host computing system to implement a certain function;

a keyword search timer recording function which enables to timer record TV programs which meet a certain criteria set by the user of said communication device;

a weather forecast displaying function which displays on said display the weather forecast of the current location of said communication device;

a multiple language displaying function, wherein a selected language is selected from a plurality of languages, and said selected language is utilized to operate said communication device;

a caller's information displaying function which displays personal information regarding

caller on said display when said communication device receives a phone call;

a shortcut icon displaying function, wherein a shortcut icon is displayed on said display, and a software program indicated by said shortcut icon is activated when said shortcut icon is selected;

a task tray icon displaying function, wherein a task tray icon is displayed on said display, and a software program indicated by said task tray icon is executed in background;

a multiple channel processing function which enables said communication device to send and receive a large amount of data in a short period of time by utilizing multiple channels;

a solar battery charging function which enables to charge battery of said communication device by utilizing solar panel;

a OS updating function which updates operating system of said communication device in a wireless fashion via said wireless communication system;

a device managing function which adds and deletes device controllers attached to or installed in said communication device;

an automobile controlling function wherein said communication device remotely controls, in response to an automobile controlling command input via said input device, an automobile; and

an OCR function wherein an image data is input to a camera of said communication device, alphanumeric data is extracted from said image data.

65. (New) The method of claim 46, wherein said communication device further implements

a voice recognition system which retrieves alphanumeric information from the user's voice input via said microphone;

a voice recognition system which retrieves alphanumeric information from the user's voice input via said microphone, and a voice recognition refraining system which refrains



from implementing said voice recognition system while a voice communication is implemented by said communication device;

a tag function, wherein a voice tag is linked to a phone number, when said voice tag is detected in the voice data retrieved via said microphone, said phone number is dialed;

a voice recognition noise filtering function, wherein a background noise is identified, a filtered voice data is produced by removing said background noise from the voice data input via said microphone, and said communication device is operated by said filtered voice data;

a sound/beep auto off function wherein said communication device refrains from outputting a sound data while a voice recognition system is implemented;

a voice recognition system auto off function, wherein said voice recognition system auto off function identifies the lapsed time since a voice recognition system is activated and deactivates said voice recognition system after a certain period of time has lapsed;

a voice recognition email function which produces a voice produced email which is an email produced by the alphanumeric information retrieved from the user's voice input via said microphone;

a voice communication text converting function, wherein a 1st voice data which indicates the voice data of the caller and a 2nd voice data which indicates the voice data of the callee are retrieved, and said 1st voice data and said 2nd voice data are converted to a 1st text data and a 2nd text data respectively, which are displayed on said display;

a target device location indicating function, wherein a target device location data identifying request is transferred to a host computing system in a wireless fashion, a map data and a target device location data is received from said host computing system in a wireless fashion, and said map data with the location corresponding to said target device location data indicated thereon is displayed on said display;

an auto backup function, wherein the data identified by the user is automatically retrieved from a data storage area of said communication device and transferred to

another computing system in a wireless fashion periodically for purposes of storing a backup data therein;

an audio/video data capturing system which retrieves an audiovisual data via said microphone and a camera installed in said communication device, and sends said audiovisual data to another device in a wireless fashion;

a caller ID function which retrieves a predetermined color data and/or sound data which is specific to the caller of the incoming call received by said communication device and outputs said predetermined color data and/or sound data from said communication device;

a stock purchase function which outputs a notice signal from said communication device when said communication device receives a notice data wherein said notice data is produced by a computing system and sent to said communication device when a stock price of a predetermined stock brand meets a predetermined criteria;

a timer email function which sends an email data to a predetermined email address at the time indicated by an email data sending time data;

a call blocking function which blocks the incoming call if the identification thereof is included in a call blocking list;

an online payment function which sends a payment data indicating a certain amount of currency to a certain computing system or device in a wireless fashion in order for said certain computing system or device to deduct the amount indicated by said payment data from a certain account stored in said certain computing system or device;

a navigation system which produces a map indicating the shortest route from a first location to a second location by referring to an attribution data;

a remote controlling system which sends a 1st remote control signal in a wireless fashion by which a 1st device is controlled via a network, a 2nd remote control signal in a wireless fashion by which a 2nd device is controlled via a network, and a 3rd remote control signal in a wireless fashion by which a 3rd device is controlled via a network;

an auto emergency calling system wherein said communication device transfers an emergency signal to a certain computing system or device when an impact of a certain level is detected in a predetermined automobile;

a cellular TV function which receives a TV data, which is a series of digital data indicating a TV program, via said wireless communication system in a wireless fashion and outputs said TV data from said communication device;

a GPS search engine function, wherein a specific criteria is selected by said input device and one or more of geographic locations corresponding to said specific criteria are indicated on said display;

a mobile ignition key function which sends a mobile ignition key signal via said wireless communication system in a wireless fashion in order to ignite an engine of an automobile;

a voice print authentication system which implements authentication process by utilizing voice data of the user of said communication device;

a fingerprint authentication system which implements authentication process by utilizing fingerprint data of the user of said communication device;

an auto time adjusting function which automatically adjusts the clock of said communication device by referring to a wireless signal received by said wireless communication system;

a video/photo function which implements a video mode and a photo mode, wherein said video/photo function displays moving image data under said video mode and said video/photo function displays still image data under said photo mode on said display;

a taxi calling function, wherein a 1st location which indicates the geographic location of said communication device is identified, a 2nd location which indicates the geographic location of the taxi closest to said 1st location is identified, and said 1st location and said 2nd location are indicated on said display;

an address book updating function which updates the address book stored in said

communication device by personal computer via network;

a batch address book updating function which updates all address books of a plurality of devices including said communication device in one action;

a batch scheduler updating function which updates all schedulers of a plurality of devices including said communication device in one action;

a calculating function which implements mathematical calculation by utilizing digits input via said input device;

a spreadsheet function which displays a spreadsheet on said display, wherein said spreadsheet includes a plurality of cells which are aligned in a matrix fashion;

a word processing function which implements a bold formatting function, an italic formatting function, and/or a font formatting function, wherein said bold formatting function changes alphanumeric data to bold, said italic formatting function changes alphanumeric data to italic, and said font formatting function changes alphanumeric data to a selected font;

a TV remote controlling function wherein a TV control signal is transferred via said wireless communication system, said TV control signal is a wireless signal to control a TV tuner;

a CD/PC inter-communicating function which retrieves the data stored in a data storage area and transfers said data directly to another computer by utilizing infra-red signal in a wireless fashion;

a pre-dialing/dialing/waiting sound selecting function, wherein a selected pre-dialing sound which is one of the plurality of pre-dialing sound is registered, a selected dialing sound which is one of the plurality of dialing sound is registered, and a selected waiting sound which is one of the plurality of waiting sound is registered by the user of said communication device, and during the process of implementing a voice communication mode, said selected pre-dialing sound is output from said speaker before a dialing process is initiated, said selected dialing sound is output from said speaker during said

dialing process is initiated, and said selected waiting sound is output from said speaker after said dialing process is completed;

a startup software function, wherein a startup software identification data storage area stores a startup software identification data which is an identification of a certain software program selected by the user, when the power of said communication device is turned on, said startup software function retrieves said startup software identification data from said startup software identification data storage area and activates said certain software program;

said display includes a 1st display and a 2nd display which display visual data in a stereo fashion, said microphone includes a 1st microphone and a 2nd microphone which input audio data in a stereo fashion, and said communication device further comprises a vibrator which vibrates said communication device, an infra-red transmitting device which transmits infra-red signals, a flash light unit which emits strobe light, a removable memory which stores a plurality of digital data and removable from said communication device, and a photometer which a sensor to detect light intensity;

a stereo audio data output function which enables said communication device to output audio data in a stereo fashion;

a stereo visual data output function, wherein a left visual data storage area stores a left visual data, a right visual data storage area stores a right visual data, stereo visual data output function retrieves said left visual data from said left visual data storage area and displays on a left display and retrieves said right visual data from said right visual data storage area and displays on a right display;

a multiple signal processing function, wherein said communication implements wireless communication under a 1st mode and a 2nd mode, said wireless communication is implemented by utilizing cdma2000 signal under said 1st mode, and said wireless communication is implemented by utilizing W-CDMA signal under said 2nd mode;

a pin-pointing function, wherein a plurality of in-door access points are installed in an

artificial structure, a target device location data which indicates the current geographic location of another device is identified by the geographical relation between said plurality of in-door access points and said another device, and said target device location data is indicated on said display;

a CCD bar code reader function, wherein a bar code data storage area stores a plurality of bar code data, each of said plurality of bar code data corresponds to a specific alphanumeric data, said CCD bar code reader function identifies the bar code data corresponding to a bar code retrieved via a camera and identifies and displays the alphanumeric data corresponding to the identified bar code data;

an online renting function which enables the user of communication device to download from another computing system and rent digital information for a certain period of time;

an SOS calling function, wherein when a specific call is made from said communication device, said SOS calling function retrieves a current geographic location data from a current geographic location data storage area and retrieves a personal information data from a personal information data storage area and transfers said current geographic location data and said personal information data to a specific device in a wireless fashion;

a PC remote controlling function, wherein an image data is produced by a personal computer, said image data is displayed on said personal computer, said image data is transferred to said communication device, said image data is received via said wireless communication system in a wireless fashion and stored in a data storage area, said image data is retrieved from said data storage area and displayed on said display, a remote control signal input via said input device is transferred to said personal computer via said wireless communication system in a wireless fashion, and said personal computer is controlled in accordance with said remote control signal;

a PC remote downloading function, wherein said communication device sends a data transferring instruction signal to a 1st computer via said wireless communication system

in a wireless fashion, wherein said data transferring instruction signal indicates an instruction to said 1st computer to transfer a specific data stored therein to a 2nd computer;

an audiovisual playback function, wherein an audiovisual data storage area stores a plurality of audiovisual data, an audiovisual data is selected from said audiovisual data storage area, said audiovisual playback function replays said audiovisual data if a replaying command is input via said input device, said audiovisual playback function pauses to replay said audiovisual data if a replay pausing command is input via said input device, said audiovisual playback function resumes to replay said audiovisual data if a replay resuming command is input via said input device, said audiovisual playback function terminates to replay said audiovisual data if a replay terminating command is input via said input device, said audiovisual playback function fast-forwards to replay said audiovisual data if a replay fast-forwarding command is input via said input device, and said audiovisual playback function fast-rewinds to replay said audiovisual data if a replay fast-rewinding command is input via said input device;

an audio playback function which enables said communication device to playback audio data selected by the user of said communication device;

a ticket purchasing function which enables said communication device to purchase tickets in a wireless fashion;

a remote data erasing function, wherein a data storage area stores a plurality of data, said remote data erasing function deletes a portion or all data stored in said data storage area in accordance with a data erasing command received from another computer via said wireless communication system in a wireless fashion, said data erasing command identifies the data to be erased selected by the user;

a business card function which retrieves a 1st business card data indicating the name, title, phone number, email address, and office address of the user of said communication device from said data storage area and sends via said wireless communication system

in a wireless fashion and receives a 2nd business card data indicating the name, title, phone number, email address, and office address of the user of another device via said wireless communication system in a wireless fashion and stores said 2nd business card data in said data storage area;

a game vibrating function which activates a vibrator of said communication device when a 1st game object contacts a 2nd game object displayed on said display;

a part-timer finding function which enables the user of said communication device to find a part-time job in a specified manner by utilizing said communication device;

a parking lot finding function which enables said communication device to display the closest parking lot with vacant spaces on said display with the best route thereto;

an on demand TV function which enables said communication device to display TV program on said display in accordance with the user's demand;

an inter-communicating TV function which enables said communication device to send answer data to host computing system at which said answer data from a plurality of communication devices including said communication device are counted and the counting data is produced;

a display controlling function which enables said communication device to control the brightness and/or the contrast of said display per file opened or software program executed;

a multiple party communicating function which enables the user of said communication device to voice communicate with more than one person via said communication device;

a display brightness controlling function which controls the brightness of said display in accordance with the brightness detected by a photometer of the surrounding area of the user of said communication device;

a multiple party pin-pointing function which enables said communication device to display the current locations of a plurality of devices in artificial structure;

a digital camera function, wherein a photo quality identifying command is input via said



input device, when a photo taking command is input via said input device, a photo data retrieved via a camera is stored in a photo data storage area with the quality indicated by said photo quality identifying command;

a phone number linking function which displays a phone number link and dials a phone number indicated by said phone number link when said phone number link is selected;

a multiple window displaying function which displays a plurality of windows simultaneously on said display;

a mouse pointer displaying function which displays on said display a mouse pointer which is capable to be manipulated by the user of said communication device;

a house item pin-pointing function which enables the user of said communication device to find the location of the house items for which the user is looking in a house, wherein the house items are the tangible objects placed in a house which are movable by human being;

a membership administrating function in which host computing system allows only the users of said communication device who have paid the monthly fee to access host computing system to implement a certain function;

a keyword search timer recording function which enables to timer record TV programs which meet a certain criteria set by the user of said communication device;

a weather forecast displaying function which displays on said display the weather forecast of the current location of said communication device;

a multiple language displaying function, wherein a selected language is selected from a plurality of languages, and said selected language is utilized to operate said communication device;

a caller's information displaying function which displays personal information regarding caller on said display when said communication device receives a phone call;

a shortcut icon displaying function, wherein a shortcut icon is displayed on said display, and a software program indicated by said shortcut icon is activated when said shortcut

icon is selected;

a task tray icon displaying function, wherein a task tray icon is displayed on said display, and a software program indicated by said task tray icon is executed in background;

a multiple channel processing function which enables said communication device to send and receive a large amount of data in a short period of time by utilizing multiple channels;

a solar battery charging function which enables to charge battery of said communication device by utilizing solar panel;

a OS updating function which updates operating system of said communication device in a wireless fashion via said wireless communication system;

a device managing function which adds and deletes device controllers attached to or installed in said communication device;

an automobile controlling function wherein said communication device remotely controls, in response to an automobile controlling command input via said input device, an automobile; and

an OCR function wherein an image data is input to a camera of said communication device, alphanumeric data is extracted from said image data.